

III. REMARKS

1. Applicant appreciates the Examiner's indication of the allowability of claims 7 and 9-15, and allowable subject matter in claim 6. However, for the reasons stated below, Applicant submits that claims 3 and 4-6 should also be allowable.

2. Claims 3-5 are not anticipated by Chang et al. ("Chang") under 35 U.S.C. §102(b).

Applicant's invention according to claim 3 recites that the mobile station is authenticated with user-to-user data exchange and that the data is exchanged "during call set-up" or "during a call." Chang at least does not disclose or suggest authenticating a mobile station with user-to-user data "during a call." Chang relates to how to conduct authentication between mobile terminals. In this regard, Chang proposes a hybrid end-to-end authentication and key agreement (AKA) protocol that provides authentication and key exchange between both end entities (Abstract).

In order to eliminate the requirements of a large database to hold all the session keys which are used to establish connections for conventional approaches, and the heavy load contributed by the exponential computations of ID-based authentication protocol, Chang proposes a hybrid protocol and user cache to maintain the session keys set up by the modified ID-based authentication protocol (beginning of section 2).

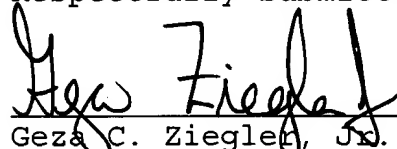
However, unlike Applicant's invention, Chang does not disclose or suggest that the authentication procedure can be continued when the call has already been established. Claim 3 specifically recites that data exchange can occur during a call.

In Chang, the initial part of the authentication protocol means the procedure in which the portable unit (entity) authenticates with the VSD and sets up a session key. A temporary identity is also assigned to the entity. By basic protocol it is meant the procedure in which an efficient protocol is provoked (page 1254, Col. 1, last paragraph). This is not the same as continuing the authentication procedure when the call is established, or during the call, as is claimed by Applicant. Thus, Chang does not anticipate Applicant's invention.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check in the amount of \$110 is enclosed for a one-month extension of time. The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



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15 September 2004
Date

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